

-Ⓢ Pending

 Active

- #L1: (82445) "455"/\$.ccls.
- #L2: (82603) L1 "3" and "beacon frequency"
- #L3: (151) 1 and "beacon frequency"
- #L4: (15) 1 and (frequency near3 phantom)
- #L5: (249) frequency near3 phantom
- #L6: (1) 5 and "beacon frequency"
- #L7: (1) 5 and ("least used" or "least amount of traffic")
- #L8: (6) 1 and "beacon frequency".clm.
- #L9: (0) 8 and (frequency near3 phantom).clm.
- #L10: (0) 8 and ("least used" or "least amount of traffic").clm.
- #L11: (1142) 455/278.1 455/403 455/432.1 455/436-439 455/442 455/447.
- #L12: (0) 11 and "beacon frequency".clm.
- #L13: (0) 12 and ("least used" or "least amount of traffic").clm.
- #L14: (0) 11 and (frequency near3 phantom).clm.

✖ Failed

 Saved

- S1: (67994) "455"/\$.ccls.
- S2: (5644) S1 and (frequency near8 interference)
- S3: (56) S2 and "beacon frequency"

[Search](#) [List](#) [Browse](#) [Queue](#) [Clear](#)

DB6 US-PGPUB ☒ Plurals

Default operator: OR ▼

☒ Highlight all hit terms initially

455/278.1 455/403 455/432.1 455/436-439
455/442 455/447-448 455/452.2 "45563.1"
455/67.13 455/513

 BRS form
 IS&R form
 Image
 Text
 HTML

[illegible]



- ☐ Drafts
- ☐ Pending
- ☒ Active
 - ☒ L1: (82445) "455"/\$.ccls.
 - ☒ L2: (82603) L1 "3" and "beacon frequency"
 - ☒ L3: (151) 1 and "beacon frequency"
 - ☒ L4: (15) 1 and (frequency near3 phantom)
 - ☒ L5: (249) frequency near3 phantom
 - ☒ L6: (1) 5 and "beacon frequency"
 - ☒ L7: (1) 5 and ("least used" or "least amount of traffic")
- ☐ Failed
- ☒ Saved
 - ☒ S1: (67994) "455"/\$.ccls.
 - ☒ S2: (5644) S1 and (frequency near8 interference)
 - ☒ S3: (56) S2 and "beacon frequency"
 - ☒ S4: (32) S3 and "signal strength"
 - ☒ S5: (30) S4 and (BS or "base station" or switch)
 - ☒ S6: (29) S5 and (wireless or mobile)
 - ☒ S7: (27) S6 and cell
 - ☒ S8: (18) S6 and cell
 - ☒ S9: (5) S8 and (neighbor\$3 near3 cell)
 - ☒ S10: (2) S9 and matrix
 - ☒ S11: (1) S10 and MAHO
 - ☒ S12: (73064) "455"/\$.ccls.
 - ☒ S13: (6067) S12 and (frequency near8 interference)

(19) United States

(17) Patent Application Publication (18) Pub. No.: US 2005/0026567 A1

Austin et al.

(19) Pub. Date: Feb. 3, 2005

(34) WIRELESS FREQUENCY RE-USE DETERMINATION SYSTEMS AND METHODS

(35) Provisional application No. 60/284,170, filed on Apr. 24, 2001.

(73) Inventor: Mark Austin, Atlanta, GA (US); David J. Lathrop, Houston, TX (US); Derek Johnson, Dayton, GA (US); AB Anthony, Roswell, GA (US)

Publication Classification

(51) Int. Cl. A63 6/02

(52) U.S. Cl. 455-67.11

Correspondence Address: KIRKPATRICK & LOCKHEART LLP, KERRY W. OLIVER, 500 BOND ST., SUITE 200, PITTSBURGH, PA 15222-2512 (US)

(21) Appl. No.: 10/584,156

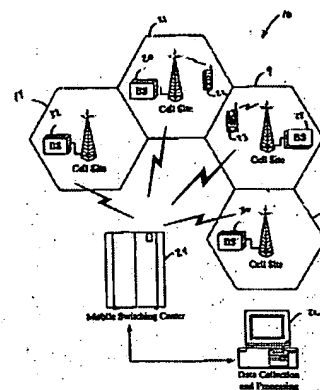
(22) Filed: Sep. 8, 2004

Related U.S. Application Data

(42) Division of application No. 10/045,611, filed on Feb. 27, 2002.

ABSTRACT

A method of measuring frequency interference between adjacent cell sites in a wireless telecommunication system. The method includes selecting a frequency in a cell site to be used as a beacon frequency. The method also includes acquiring the beacon frequency in the cell site and measuring, at a telecommunication switch, a signal strength of the beacon frequency as measured by a first wireless device operating in the cell site and a signal strength of the beacon frequency as measured by a second wireless device operating in another cell site. The method further includes determining the frequency interference between the cell site and the other cell site based on the signal strength.



	U	1	Document ID	Issue Date	Pages	Title	Current OR	Current	Ref	Inventor
1	<input type="checkbox"/>	<input type="checkbox"/>	US 20050026567 A1	20050203	9	Wireless frequency re-use determination systems and me	455/67.11			Austin, Mark et al.

[Hits](#)
[Details](#)
[HTML](#)

Ready

NUM



Drafts

Pending

Active

- L1: (82445) "455"/\$.ccls.
- L2: (82603) L1 "3" and "beacon frequency"
- L3: (151) 1 and "beacon frequency"
- L4: (15) 1 and (frequency near3 phantom)
- L5: (249) frequency near3 phantom
- L6: (1) S and "beacon frequency"

Failed

Saved

- S1: (67994) "455"/\$.ccls.
- S2: (5644) S1 and (frequency near8 interference)
- S3: (56) S2 and "beacon frequency"
- S4: (32) S3 and "signal strength"
- S5: (30) S4 and (BS or "base station" or switch)
- S6: (29) S5 and (wireless or mobile)
- S7: (27) S6 and cell
- S8: (18) S6 and cell
- S9: (5) S8 and (neighbor\$3 near3 cell)
- S10: (2) S9 and matrix
- S11: (1) S10 and MAHO
- S12: (73064) "455"/\$.ccls.
- S13: (6067) S12 and (frequency near8 interference)
- S14: (59) S13 and "beacon frequency"



(1) United States

(12) Patent Application Publication

Austin et al.

(13) Pub. No.: US 2005/0026567 A1

(14) Pub. Date: Feb. 3, 2005

(54) WIRELESS FREQUENCY RE-USE
DETERMINATION SYSTEMS AND
METHODS

(57) Provisional application No. 60/284,700, filed on Apr. 24, 2001.

(73) Inventors: Mark Austin, Atlanta, GA (US); David
J. Littlefield, Houston, TX (US); David
Johnson, Suwanee, GA (US); AS
Johnson, Roswell, GA (US)

Publication Classification

Correspondence Address:
KIRKPATRICK & LOCKHART LLP
BERRY W. OLIVER BUILDING
135 SMITHFIELD STREET
PITTSBURGH, PA 15222-2112 (US)(51) Int. Cl.⁷ A61B 5/00
(52) U.S. Cl. 455/412

(21) Appl. No.: 10/526,136

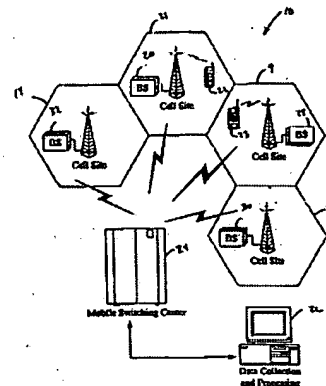
ABSTRACT

(22) Filed: Sep. 8, 2004

Related U.S. Application Data

(62) Division of application No. 09/041,861, filed on Feb. 27, 2002.

A method of measuring frequency interference between adjacent cell sites in a wireless telecommunications system. The method includes selecting a frequency in a cell site to be used as a beacon frequency. The method also includes scanning the beacon frequency in the cell site and measuring, at a subscriber station, a signal strength of the beacon frequency as measured by a first wireless device operating in the cell site and a signal strength of the beacon frequency as measured by a second subscriber device operating in another cell site. The method further includes determining the frequency interference between the cell site and the other cell site based on the signal strength.



BRS form | S&R form | Image | Text | HTML

	U	1	Document ID	Issue Date	Pages	Title	Current OR	Current	Ref	Inventor
1	<input type="checkbox"/>	<input type="checkbox"/>	US 20050026567 A1	20050203	9	Wireless frequency re-use determination systems and me	455/67.11			Austin, Mark et al.

[Hiro](#) [Details](#) [HTML](#)

Ready

NUM